1	1	2		3	4	5		6	
	~ .					Recommended configuration of plated through holes for pres			
	DIN Signal female connector cFUus RoHS					In addition to the hot-air-level (HAL), other PCB surfaces are getting more important. Due to their different properties – such mechanical strength and coefficient of friction – we recommend following configuration of PCB through holes.			
	General information						drilled hole ${\it extsf{0}}$.		
	Design IEC 60603-2 types: B, 2B, 3B, C, 2C, 3C, M female					—			Lu min. 25 µm
No. of contacts max. 96					_			3	
Contact spacing 2,54 mm Test voltage 1000V					_			\overline{M}	
	Test voltage 1000V Contact resistance max. 20m0hm					—			
Insulation resistance min. 10 ¹² 0hm					_				
в	Working current 2A at 20°C (see derating diagram) 40 A for type M						finished hole ${\it extsf{ }}$		
Temperature range -55°C +125°C -40°C +105°C (for press-in connectors)					—	plating (e.g.			
Termination technology press-in, solder pins						pranny te.g.	·) / =		
	Clearance & creepage distance min. 1,2 mm each								
	Insertion and withdrawal force 16-pole max. 15N 20-pole max. 20N 30-pole max. 30N 32-pole max. 30N 48-pole max. 45N 64-pole max. 60N 96-pole max. 90N				32-pole max. 30N	Assembly instructions It is highly recommended to use HARTING press-in tools to ensu machines and further information about the press-in process.			
	Mating cycles acc. to performance level, see table below 96-pole max. 90N								
	UL file E102079								
	RoHS - compliant Yes					Soldering instruction		Luber by	-
۱	Leadfree Yes Hot plugging No				The connectors should be protected when being soldered in a di contaminated as a result of soldering operations or deformed as				
					(1) For prototypes and short runs protect the connectors with a				
						Cover the undersid	le of the connect	or moulding an	d the adjacent
	Insulator material					 prevent heat and gases of the soldering apparatus from damagi (2) For large series a jig is recommended. Its protective cover w 			
	Material PBT (thermoplastics, glass fiber reinforcement 30%)					gas and heat gene	s a jig is recomme rated by the sole	ended. Its prot dering apparatı	ective cover w us. As an addi
	Color RAL 7032 (grey)					not be soldered.	-		
	UL classification UL 94-V0					Cross section of s	older termination	S	
•	Material group acc. IEC 60664-1 IIIa (175 < CTI < 400) NFF classification 13, F4					0,75_0,07			
									
,									
	Contact material					0,197 - 0,233 mm ²			
	Contact material Copper alloy					— [[©] ,	<u> </u>	<u>, </u>	
	Plating termination zone Sn over Ni for solder, Ni for press-in							- 16	
	Plating contact zone I acc. to performance level, see table below Plating contact zone II (termination side) acc. to performance level, see table below					Derating diagram acc. to IEC 60512-5 (Current carrying capacity) The current carrying capacity is limited by maximum temperature			
						of materials for inserts and contacts including terminals. The current capacity curve is valid for continuous, non interrupted current loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum temperature.			
	mating cycles plating contact zone								
	performance level				1	Control and test p		ing to DIN JEC	(AE12 E
		acc. to IEC 60603-2	complementary acc. to IEC 60603-2	plating contact zone l	plating contact zone II (termination side)		OLEUUIES ALLOIU		C-21C00
	1	500		Au over P	dNi over Ni	-			
	2	400		Au over PdNi over Ni		_			
	3	50		Au over Ni					
	NM30 (S4)		500	min. 0,76µm (30µinch) noble metal (alloy) over Ni					
	Au1	500		Au over Ni		_			
Í	Au2	400		Au over Ni			Dimensions in mm	Scale Fr	ee size tol.
	Au30		500	min. 0,76µm (30µinch) Au over Ni			jinal Size DIN A3	1:1	
	Au50		500	min. 1,27µm (50µinch) Au over Ni			hts reserved	Created by	Inspecte
	Au70		500		inch) Au over Ni			STORCK	LEHNERT
	Au90		500	min. 2,00µm (90µinch) Au over Ni		Department EC PD - DE		Title DIN C:	
	Standard plating options highlighted in <i>italic</i> , other plating options are available on request.					HARTING Electronics (imbH	UIN SIG	gnale female
						וועווו	Type DS	Number 090	
					1	D-32339 Espelkamp		L D2	070

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<u>A</u>3